

WHAT IS CLAIMED IS:

1. A broadcast receiver comprising:

receiving means for receiving a broadcast signal  
in response to a request from an external terminal  
capable of communicating with the broadcast receiver,  
the broadcast signal being transmitted by multiplexing  
identification information for identifying the  
broadcast receiver with control information for  
controlling the broadcast receiver;

communication means for communicating with the  
external terminal;

extraction means for extracting information data  
regarding information designated by the control  
information in accordance with the identification  
information and control information contained in the  
received broadcast signal; and

control means for controlling to make said  
communication means transmit the information data  
regarding the information to the external terminal in  
response to reception of the control information.

2. A broadcast receiver according to claim 1,  
further comprising means for generating display data  
for displaying on display means of the external  
terminal, in accordance with the control information,  
wherein the information data contains the display data.

3. A broadcast receiver according to claim 2,  
wherein the display data is data for displaying an  
operation assistance screen for assisting an operation  
of the external terminal.

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4. A broadcast receiver according to claim 3,  
wherein the operation assistance screen assists at  
least one operation of a record operation, a record  
reservation operation and a viewing reservation  
operation of video and audio data of a program received  
by the broadcast receiver, an operation of obtaining  
program information data and data broadcast data of the  
program, and a record operation of the data broadcast  
data of the program.

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5. A broadcast receiver according to claim 2,  
further comprising:

initial screen setting means for setting  
information for structuring an initial screen; and  
storage means for storing initial screen setting  
data set by said initial screen setting means,  
wherein if the control information is initial  
screen transmission command information, said  
extraction means extracts the initial screen setting  
data from said storage means, said generating means  
generates the display data in accordance with the  
initial screen setting data, and said control means

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controls to transmit the display data to the external terminal.

5 6. A broadcast receiver according to claim 1,  
wherein the broadcast signal contains program  
information data and the control information is command  
information for transmitting the program information  
data to the external terminal.

10 7. A broadcast receiver according to claim 6,  
wherein the program information data is data regarding  
an electronic program guide EPG and contains  
information such as a channel name, a program name, a  
broadcast day and time, and program contents.

15 8. A broadcast receiver according to claim 1,  
wherein the broadcast signal contains data broadcast  
data, and the control information is command  
information for transmitting the data broadcast data to  
20 the external terminal.

25 9. A broadcast receiver according to claim 1,  
wherein said control means controls to the information  
data regarding the information to the external terminal  
at a predetermined time.

10. A broadcast receiver according to claim 1,

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wherein the external terminal is a portable terminal capable of mobile communications.

11. A broadcast receiver according to claim 1,  
5 wherein said control means further controls an operation of the broadcast receiver in accordance with the control information, and controls at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video  
10 and audio data of a program contained in the broadcast signal, and a record operation of data broadcast data of the program.

12. A broadcast reception method comprising steps  
15 of:

receiving a broadcast signal in response to a request from an external terminal capable of communicating with a broadcast receiver, the broadcast signal being transmitted by multiplexing identification  
20 information for identifying the broadcast receiver with control information for controlling the broadcast receiver;

communicating with the external terminal;  
extracting information data regarding information  
25 designated by the control information in accordance with the identification information and control information contained in the received broadcast signal;

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and

controlling to transmit the information data regarding the information to the external terminal in response to reception of the control information.

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10 13. A broadcast reception method according to claim 12, further comprising a step of generating display data for displaying on display means of the external terminal, in accordance with the control information, wherein the information data contains the display data.

15 14. A broadcast reception method according to claim 13, wherein the display data is data for displaying an operation assistance screen for assisting an operation of the external terminal.

20 15. A broadcast reception method according to claim 14, wherein the operation assistance screen assists at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video and audio data of a program received by the broadcast receiver, an operation of obtaining program information data and data broadcast data of the  
25 program, and a record operation of the data broadcast data of the program.

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16. A broadcast reception method according to claim 13, further comprising steps of:

setting information for structuring an initial screen; and

5 storing the set initial screen setting data,  
wherein if the control information is initial  
screen transmission command information, the stored  
initial screen setting data is read, the display data  
is generated in accordance with the initial screen  
10 setting data, and the display data is transmitted to  
the external terminal.

17. A broadcast reception method according to  
claim 12, wherein the broadcast signal contains program  
15 information data and the control information is command  
information for transmitting the program information  
data to the external terminal.

18. A broadcast reception method according to  
20 claim 17, wherein the program information data is data  
regarding an electronic program guide EPG and contains  
information such as a channel name, a program name, a  
broadcast day and time, and program contents.

19. A broadcast reception method according to  
claim 12, wherein the broadcast signal contains data  
25 broadcast data, and the control information is command

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information for transmitting the data broadcast data to the external terminal.

20. A broadcast reception method according to  
5 claim 12, wherein the information data regarding the information is transmitted to the external terminal at a predetermined time.

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10 21. A broadcast reception method according to claim 12, wherein the external terminal is a portable terminal capable of mobile communications.

15 22. A broadcast reception method according to claim 12, wherein an operation of the broadcast receiver is controlled in accordance with the control information, and at least one operation of a record operation, a record reservation operation and a viewing reservation operation of video and audio data of a program contained in the broadcast signal, and a record  
20 operation of data broadcast data of the program is controlled.

23. A storage medium storing a program for  
25 executing a broadcast reception method, the broadcast reception method comprising steps of:

receiving a broadcast signal in response to a request from an external terminal capable of mobile

communications with a broadcast receiver, the broadcast  
signal being transmitted by multiplexing identification  
information for identifying the broadcast receiver with  
control information for controlling the broadcast  
5 receiver;

communicating with the external terminal;

extracting information data regarding information  
designated by the control information in accordance  
with the identification information and control  
10 information contained in the received broadcast signal;  
and

controlling to transmit the information data  
regarding the information to the external terminal in  
response to reception of the control information.

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24. A broadcast receiver comprising:

receiving means for receiving a broadcast signal  
in response to a request from a portable terminal  
capable of mobile communications with the broadcast  
20 receiver, the broadcast signal being transmitted by  
multiplexing identification information for identifying  
the broadcast receiver with control information for  
controlling the broadcast receiver;

operation control means for executing a control  
25 operation designated by the control information in  
accordance with the identification information and  
control information contained in the broadcast signal

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received by said receiving means;

communication means for communicating with the portable terminal; and

communication control means for controlling said  
5 communication means to communicate with the portable terminal in accordance with a control by said operation control means.

25. A broadcast receiver according to claim 24,  
10 further comprising extraction means for extracting information data regarding data designated by the control information, wherein said communication control means controls said communication means to transmit the  
information data extracted by said extraction means to  
15 the portable terminal.

26. A broadcast receiver according to claim 24,  
further comprising means for generating display data  
for displaying on display means of the portable  
20 terminal, in accordance with the control information, wherein the information data contains the display data.

27. A broadcast receiver according to claim 24  
wherein the display data is data for displaying an  
25 operation assistance screen for assisting an operation of the portable terminal.

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28. A broadcast receiver according to claim 27,  
wherein the operation assistance screen assists at  
least one operation of a record operation, a record  
reservation operation and a viewing reservation  
operation of video and audio data of a program received  
by the broadcast receiver, an operation of obtaining  
program information data and data broadcast data of the  
program, and a record operation of the data broadcast  
data of the program.

29. A broadcast receiver according to claim 27,  
wherein said operation control means controls at least  
one operation of a record operation, a record  
reservation operation and a viewing reservation  
operation of video and audio data of a program  
contained in the broadcast signal, and a record  
operation of data broadcast data of the program.

30. A digital television broadcast receiver  
comprising:

receiving means for receiving digital broadcast  
data;

extraction means for extracting program  
information data regarding a program from the digital  
broadcast data;

decoding means for decoding the program  
information data;

first screen structuring means for structuring a first user operation assistance screen for assisting a user of the receiver in accordance with the decoded data;

5 communication means for communicating with a remote operation terminal;

second screen structuring means for structuring a second user operation assistance screen for assisting a user of the remote operation terminal; and

10 control means for controlling to transmit display data for the second user operation assistance screen and identification information unique to the remote operation terminal from said communication means to the remote operation terminal.

15 31. A digital television broadcast receiver according to claim 30, wherein the first user operation assistance screen includes a screen constituted of electronic program guide EPG data contained in the  
20 broadcast data, and the second user operation assistance screen contains display data includes display data with the electronic program guide data replaced with characters and symbols.

25 32. A digital television broadcast receiver according to claim 30, wherein data of the second user operation assistance screen includes one of bit map

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image data, Joint Photographic Expert Group JPEG image data, HyperText Markup Language HTML described data, and eXtensible Markup Language XML described data.

5           33. A digital television broadcast receiver according to claim 30, wherein the second user operation assistance screen is a screen for assisting a record operation of video and audio data and data broadcast data of a program contained in the broadcast data.

10           34. A digital television broadcast receiver according to claim 30, wherein the remote operation terminal has displaying means for receiving the display data and identification data transmitted from said communication means and displaying the second user operation assistance screen in accordance with the received display data and identification information.

20           35. A digital television broadcast receiver according to claim 34, wherein the remote operation terminal has instructing means for instructing a control command for controlling the broadcast receiver in accordance with the second user operation assistance screen displayed by said displaying means, and transmitting means for transmitting control information regarding the instructed control command together with

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identification information unique to the broadcast receiver.

36. A digital television broadcast receiver  
5 according to claim 35, wherein the identification  
information unique to the broadcast receiver a viewer  
identification number regarding pay program viewing  
contained in the broadcast data received by the  
broadcast receiver.

10 37. A digital television broadcast receiver  
according to claim 35, wherein said receiving means  
receives the control information and the identification  
information unique to the broadcast receiver  
15 transmitted from the remote operation terminal, as an  
entitlement management message EMM transmitted by a  
broadcaster transmitting the broadcast data.

20 38. A digital television broadcast receiver  
according to claim 30, wherein said control means  
controls to transmit the second user operation  
assistance screen at a predetermined time from said  
communication means to the remote operation terminal.

25 39. A digital television broadcast receiver  
according to claim 30, wherein the identification  
information unique to the remote operation terminal is

a phone number.

40. A digital television broadcast receiver  
according to claim 30, wherein the identification  
5 information unique to the remote operation terminal is  
an email address.

41. A digital television broadcast receiver  
according to claim 30, wherein the remote operation  
10 terminal has image pickup means for taking an image of  
a subject.

42. An external terminal comprising:  
communication means for communicating with a  
15 broadcast receiver for receiving a broadcast  
transmitted by multiplexing identification information  
for identifying the broadcast receiver with control  
information for controlling the broadcast receiver,  
extracion information data regarding information  
20 designated by the control information in accordance  
with the identification information and control  
information contained in the received broadcast signal,  
and transmitting the information data regarding the  
information to the external terminal in response to  
25 reception of the control information;

receiving means for receiving the information data  
transmitted from the broadcast receiver via said

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communication means; and

display means for displaying a screen of the information regarding the information data received by said receiving means.

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43. An external terminal according to claim 42, further comprising:

designating means for designating a control operation for controlling the broadcast receiver in accordance with the information screen displayed by said display means; and

transmitting means for transmitting the control information regarding the control operation designated by said designating means and the identification information to a broadcast transmitter to multiplex the control information and identification information into the broadcast signal.

44. A broadcast receiver control system comprising:

a broadcast transmitter, responsive to a request from an external terminal capable of communications with a broadcast receiver, for transmitting a broadcast signal by multiplexing identification information for identifying the broadcast receiver and control information for controlling the broadcast receiver;

said broadcast receiver deriving information data

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regarding information designated by the control information in accordance with the identification information and control information transmitted from said broadcast transmitter, and transmitting the

5 information data to said external terminal; and

said external terminal receiving the information data from said broadcast receiver and displaying a screen of the information regarding the information data.

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